



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/030,658A
Source: 1FW16 -
Date Processed by STIC: 3/4/04 -

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/030, 658A
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 _____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 _____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 _____ Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 _____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 _____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 _____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 _____ Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 _____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/030,658A

DATE: 03/04/2004

TIME: 09:44:17

Input Set : A:\2004-02-25 4456-0101P.ST25.txt

Output Set: N:\CRF4\03042004\J030658A.raw

3 <110> APPLICANT: Yamamura Ken-ichi
 4 Araki Kimi
 6 <120> TITLE OF INVENTION: TRAP VECTORS AND GENE TRAPPING USING THE SAME
 8 <130> FILE REFERENCE: 4456-0101P
 10 <140> CURRENT APPLICATION NUMBER: 10/030,658A
 11 <141> CURRENT FILING DATE: 2002-01-11
 13 <150> PRIOR APPLICATION NUMBER: JP99/200997
 14 <151> PRIOR FILING DATE: 1999-07-14
 16 <160> NUMBER OF SEQ ID NOS: 17
 18 <170> SOFTWARE: PatentIn Ver. 2.0
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 13
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Artificial Sequence
 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
 28 <400> SEQUENCE: 1
 29 taccgttcgt ata 13
 31 <210> SEQ ID NO: 2
 32 <211> LENGTH: 13
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial Sequence
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
 39 <400> SEQUENCE: 2
 40 tatacgaacg gta 13
 42 <210> SEQ ID NO: 3
 43 <211> LENGTH: 34
 44 <212> TYPE: DNA
 45 <213> ORGANISM: Artificial Sequence
 47 <220> FEATURE:
 48 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
 50 <400> SEQUENCE: 3
 51 ataacttcgt atagcataca ttatacgaag ttat 34
 53 <210> SEQ ID NO: 4
 54 <211> LENGTH: 13
 55 <212> TYPE: DNA
 56 <213> ORGANISM: Artificial Sequence
 58 <220> FEATURE:
 59 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
 61 <400> SEQUENCE: 4
 62 ataacttcgt ata 13
 64 <210> SEQ ID NO: 5

P. 2
 ... Needer

RAW SEQUENCE LISTING

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TIME: 09:44:17

Input Set : A:\2004-02-25 4456-0101P.ST25.txt

Output Set: N:\CRF4\03042004\J030658A.raw

65 <211> LENGTH: 13
 66 <212> TYPE: DNA
 67 <213> ORGANISM: Artificial Sequence
 69 <220> FEATURE:
 70 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
 72 <400> SEQUENCE: 5
 73 tatacgaagt tat 13
 75 <210> SEQ ID NO: 6
 76 <211> LENGTH: 34
 77 <212> TYPE: DNA
 78 <213> ORGANISM: Other *Invalid response - see item 10 on Error Summary Sheet*
 80 <220> FEATURE:
 81 <223> OTHER INFORMATION: Homologous recombination sequence
 83 <400> SEQUENCE: 6
 84 taccgttcgt atagcataca ttatacgaac ggta 34
 86 <210> SEQ ID NO: 7
 87 <211> LENGTH: 19
 88 <212> TYPE: DNA
 89 <213> ORGANISM: Artificial Sequence
 91 <220> FEATURE:
 92 <223> OTHER INFORMATION: Z1 forward primer used in PCR for B-geo detection
 94 <400> SEQUENCE: 7
 95 gcggttaccca acttaatcg 19
 97 <210> SEQ ID NO: 8
 98 <211> LENGTH: 18
 99 <212> TYPE: DNA
 100 <213> ORGANISM: Artificial Sequence
 102 <220> FEATURE:
 103 <223> OTHER INFORMATION: Z2 reverse primer used in PCR for B-geo detection
 105 <400> SEQUENCE: 8
 106 tgtgagcgag taacaacc 18
 108 <210> SEQ ID NO: 9
 109 <211> LENGTH: 22
 110 <212> TYPE: DNA
 111 <213> ORGANISM: Artificial Sequence
 113 <220> FEATURE:
 114 <223> OTHER INFORMATION: Ori2 forward primer used in PCR for detecting the
 replication
 115 origin region in pUC vector
 117 <400> SEQUENCE: 9
 118 gccagtggcg ataagtcgtg tc 22
 120 <210> SEQ ID NO: 10
 121 <211> LENGTH: 21
 122 <212> TYPE: DNA
 123 <213> ORGANISM: Artificial Sequence
 125 <220> FEATURE:
 126 <223> OTHER INFORMATION: Ori3 reverse primer used in PCR for detecting the
 replication
 127 origin region in pUC vector
 129 <400> SEQUENCE: 10
 130 cacagaatca ggggataacg c 21

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Input Set : A:\2004-02-25 4456-0101P.ST25.txt

Output Set: N:\CRF4\03042004\J030658A.raw

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132 <210> SEQ ID NO: 11
133 <211> LENGTH: 400
134 <212> TYPE: DNA
135 <213> ORGANISM: Mus musculus
137 <220> FEATURE:
138 <221> NAME/KEY: misc_feature
139 <222> LOCATION: (36)..(36)
140 <223> OTHER INFORMATION: n is a, c, g, or t
142 <220> FEATURE:
143 <221> NAME/KEY: misc_feature
144 <222> LOCATION: (70)..(70)
145 <223> OTHER INFORMATION: n is a, c, g, or t
147 <220> FEATURE:
148 <221> NAME/KEY: misc_feature
149 <222> LOCATION: (362)..(362)
150 <223> OTHER INFORMATION: n is a, c, g, or t
152 <220> FEATURE:
153 <221> NAME/KEY: misc_feature
154 <222> LOCATION: (364)..(364)
155 <223> OTHER INFORMATION: n is a, c, g, or t
157 <220> FEATURE:
158 <221> NAME/KEY: misc_feature
159 <222> LOCATION: (377)..(377)
160 <223> OTHER INFORMATION: n is a, c, g, or t
163 <400> SEQUENCE: 11
W--> 164 agaaacttaa acagcggata aacttcagtg atttanatca gagaagtatt ggaagtgatt 60
165 ctcaaggtan agcaacagcg gctaacaaca aacgtcagct tagtgaaaac cgaaagccct 120
166 tcaacttttt gcctatgcag attaatacta acaagagcaa ggatgctact gcaagtcttc 180
167 caaagagaga gatgacaacg tcagcacagt gcaaagagtt gtttgcttct gctctaagta 240
168 atgacctttt gcaaaactgt caatctctga agaagatggg agagggggagc ctgcatggga 300
169 aacaccagat tgtaagcagg cttgttcaat cctgactata ttactaaagc tagttctatg 360
170 cnanaagttt tgtaanaaaa atgaaagtct gcaatgttga 400
172 <210> SEQ ID NO: 12
173 <211> LENGTH: 416
174 <212> TYPE: DNA
175 <213> ORGANISM: Mus musculus
177 <220> FEATURE:
178 <221> NAME/KEY: misc_feature
179 <222> LOCATION: (37)..(37)
180 <223> OTHER INFORMATION: n is a, c, g, or t
182 <220> FEATURE:
183 <221> NAME/KEY: misc_feature
184 <222> LOCATION: (363)..(363)
185 <223> OTHER INFORMATION: n is a, c, g, or t
187 <220> FEATURE:
188 <221> NAME/KEY: misc_feature
189 <222> LOCATION: (392)..(392)
190 <223> OTHER INFORMATION: n is a, c, g, or t
192 <220> FEATURE:

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/030,658A

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Input Set : A:\2004-02-25 4456-0101P.ST25.txt

Output Set: N:\CRF4\03042004\J030658A.raw

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193 <221> NAME/KEY: misc_feature
194 <222> LOCATION: (401)..(401)
195 <223> OTHER INFORMATION: n is a, c, g, or t
197 <220> FEATURE:
198 <221> NAME/KEY: misc_feature
199 <222> LOCATION: (403)..(403)
200 <223> OTHER INFORMATION: n is a, c, g, or t
203 <400> SEQUENCE: 12
W--> 204 tcttctagct ttgcagcata aagcagagca agctatnagc tgtgatggat gactctgttg 60
205 ttacagaaac tacaggaagc ttaictggag tcagcatcac atctgaacta aatgaagaac 120
206 tgaatgattt aattcagcgt ttccataatc agcttcgtga ttctcagcct ccagctgttc 180
207 cagacaacag aagacaggca gaaagtcttt cattaactag agagatttct cagagcagaa 240
208 atccctcagt ttctgaacat ttacctgatg agaaagtaca gcttttttagc aaaatgagag 300
209 tactacagga aaagaacaag aaatggacaa attagtggg agaacttcat aaccttcgag 360
210 atnagcatct gaacaactca tcatttgtgc cntcaacttc ncnccaaaga agtggg 416
212 <210> SEQ ID NO: 13
213 <211> LENGTH: 484
214 <212> TYPE: DNA
215 <213> ORGANISM: Mus musculus
217 <220> FEATURE:
218 <221> NAME/KEY: misc_feature
219 <222> LOCATION: (33)..(33)
220 <223> OTHER INFORMATION: n is a, c, g, or t
222 <220> FEATURE:
223 <221> NAME/KEY: misc_feature
224 <222> LOCATION: (48)..(48)
225 <223> OTHER INFORMATION: n is a, c, g, or t
227 <220> FEATURE:
228 <221> NAME/KEY: misc_feature
229 <222> LOCATION: (54)..(54)
230 <223> OTHER INFORMATION: n is a, c, g, or t
232 <220> FEATURE:
233 <221> NAME/KEY: misc_feature
234 <222> LOCATION: (89)..(89)
235 <223> OTHER INFORMATION: n is a, c, g, or t
237 <220> FEATURE:
238 <221> NAME/KEY: misc_feature
239 <222> LOCATION: (244)..(244)
240 <223> OTHER INFORMATION: n is a, c, g, or t
242 <220> FEATURE:
243 <221> NAME/KEY: misc_feature
244 <222> LOCATION: (257)..(257)
245 <223> OTHER INFORMATION: n is a, c, g, or t
248 <400> SEQUENCE: 13
W--> 249 gtttctacac ctactgaaca gcagcagcca ttnagctcaa aatccttnca gggnaaaaca 60
250 gagtatatgg cttttccaaa accctctgna aagcagttct tctcttggag cagaaaagca 120
251 aaggaatcaa gaaacagccc gaagaggaag ctgaaaacac taagacacca tggttatatg 180
252 atcaagaagg tggagtagaa aaaccatttt tcaagactgg atttacagag tctgtagaga 240
253 aagntacaaa atagtanccg caaaaatcaa ccagatacaa gcaggagaag acgtcggttt 300

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/030,658A

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Input Set : A:\2004-02-25 4456-0101P.ST25.txt

Output Set: N:\CRF4\03042004\J030658A.raw

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254 gatgaagaat cccttggaag gcttttagcag tatgcctgat cctatagacc caacatcagt 360
255 aactaaaaca tttaaaacaa gaaaagcatc tgcccaggcc agcctggcct ctaaggacaa 420
256 aactcccaaa tcaaagagta agaagaggat tctactcagc tgaaaagtag agttaaaaat 480
257 attg 484
260 <210> SEQ ID NO: 14
261 <211> LENGTH: 211
262 <212> TYPE: DNA
263 <213> ORGANISM: Mus musculus
265 <400> SEQUENCE: 14
266 ctgtctgtca ttgtcgttct cctttagaag gcagaaaaga aatgggaaga aaaaaggcaa 60
267 aatctggaac actataacgg aaaggagttc gagaagctcc tggaggaagc tcaggccaac 120
268 atcatgaagt caattccaaa cctggagatg ccccagctt ccagcccagt gtcaaaggga 180
269 gatgcggcag gggataagct ggagctgtca g 211
272 <210> SEQ ID NO: 15
273 <211> LENGTH: 34
274 <212> TYPE: DNA
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
280 <400> SEQUENCE: 15
281 taccgttcgt atagcataca ttatacgaag ttat 34
283 <210> SEQ ID NO: 16
284 <211> LENGTH: 34
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
291 <400> SEQUENCE: 16
292 ataacttcgt atagcataca ttatacgaac ggta 34
294 <210> SEQ ID NO: 17
295 <211> LENGTH: 34
296 <212> TYPE: DNA
297 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:
300 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
302 <400> SEQUENCE: 17
303 tattgaagca tatcgtatgt aatatgcttc aata 34

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/04/2004
PATENT APPLICATION: US/10/030,658A TIME: 09:44:18

Input Set : A:\2004-02-25 4456-0101P.ST25.txt
Output Set: N:\CRF4\03042004\J030658A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; N Pos. 36,70,362,364,377
Seq#:12; N Pos. 37,363,392,401,403
Seq#:13; N Pos. 33,48,54,89,244,257

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/030,658A

DATE: 03/04/2004

TIME: 09:44:18

Input Set : A:\2004-02-25 4456-0101P.ST25.txt

Output Set: N:\CRF4\03042004\J030658A.raw

L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
M:341 Repeated in SeqNo=12
L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
M:341 Repeated in SeqNo=13